

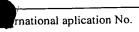
PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Artcle 36 and Rule 70)

Applicant's or agent's file reference PCA30105/SCP	FOR FURTHER ACTION SeeNotificationofTransmittalofInternationalPreliminary Examination Report (Form PCT/IPEA/416)					
International application No.	International filing date(day/m	onth/year)	Priority date (day/month/y	ear)		
PCT/KR2003/000414	04 MARCH 2003 (04.0	3.2003)	01 AUGUST 2002 (01.08	3.2002)		
International Patent Classification (IPC) IPC7 C08J 3/075 Applicant	or national classification and II	PC	No. 200 利	접수 04.11.25 일국제		
KIM, Hongdoo				T어법률		
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 						
2. This REPORT consists of a total	2. This REPORT consists of a total of sheets, including this cover sheet.					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total ofsheets.						
3. This report contains indications i	relating to the following items:					
I X Basis of the report						
II Priority						
III Non-establishment	of opinion with regard to novel	ty, inventive step ar	d industrial applicability			
IV Lack of unity of in	vention					
Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
VI Certain documents	cited					
VII Certain defects in t	he international application					
VIII Certain observations on the international application						
,						
Date of submission of the demand	Dat	te of completion of	this report			
23 FEBRUARY 2004	3 (23.02.2004)	15 NOVEMB	ER 2004 (15.11.2004)			
Name and mailing address of the IPEA		thorized officer		A STUD		
Korean Intellectual Proper 920 Dunsan-dong, Seo-gu, Republic of Korea		SOHN, Chang H	lo	近到9		
Facsimile No. 82-42-472-7140	Tel	lephone No. 82-42	-481-5538	AND IT		

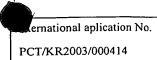




PCT/KR2003/000414

I.	I. Basis of the report							
1.	With	regard to the elements of the international application:*						
	X	the international application as originally filed						
	一	the description:	as originally filed					
		pages	, as originally filed , filed with the demand					
		pages, filed with the letter of	,					
	_							
		the claims: pages	, as originally filed					
		pages, as amended (together with any	statment) under Article 19					
		nages	, med with the demand					
		pages, filed with the letter of						
		the drawings:	, as originally filed					
		pagespages						
		pages, filed with the letter of						
	Г	the sequence listing part of the description:						
	-	pages	, as originally filed					
		pages, filed with the letter of	, med with the demand					
		pages, fried with the letter of	<u>,,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,</u>					
2.	the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language English which is							
	L	the language of a translation furnished for the purposes of international search (under Rule 23	.1(D)).					
	the language of publication of the international application (under Rule 48.3(b)).							
	Г	the language of the translation furnished for the purposes of international preliminary exam	mation(under Rules 55.2 and/					
]	_	or 55.3).						
3	3. V p	Ith regard to any nucleotide and/or amino acid sequence disclosed in the international application application was carried out on the basis of the sequence listing:	ication, the international					
		contained inthe international application in written form.						
	F	filed together with the international application in computer readable form.						
		furnished subsequently to this Authority in written form.						
	F	furnished subsequently to this Authority in computer readable form						
		The statement that the subsequently furnished written sequence listing does not go be international applicationas as filed has been furinshed.	eyond the disc losure in the					
	The statement that the information recorded in computer readable form is identical to the written sequence listing has							
	L	been furnished.						
	_							
4	· [The amendments have resulted in the cancellation of:						
		the description, pages						
		the claims, Nos.						
		the drawings, sheets						
5	· [This report has been established as if (some of) the amendments had not been made, sinc go beyond the disclosure as filed, as indicated in the Supplemental Box(Rule 70.2(c)).**	e they have been considered to					
	in	placement sheets which have been furnished to the receiving Office in response to an invitation we this opinion as "originally filed." and are not annexed to this report since they do not contained 70.17).	under Article 14 are referred to n amendments (Rules 70.16					
	** A.	ny replacement sheet containing such amendments must be referred to under item I and annexed	to this report.					

INTERNATIONAL PRELIMINARY EXAMINATION



V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1-27 .	<u>Y</u> ES
• • •	Claims	none	NO
Inventive step (IS)	Claims	1-27	YES
	Claims	none	NO
Industrial applicability (IA)	Claims	1-27	YES
	Claims	none	NO
		Novelty (N) Claims Claims Inventive step (IS) Claims Claims Claims Claims	Novelty (N) Claims Claims Inventive step (IS) Claims Claims Claims 1-27 Claims I-27 none Industrial applicability (IA) Claims 1-27

2. Citations and explanations (Rule 70.7)

The following documents identified in the International Search Report have been considered for this report:

D1 : WO 9714404 A1 D2 : WO 9617591 A1

Claims 1-27 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest any of the embodiments as specifically set forth in the claims.

The invention described in independent claims 1,15,18,25 relates to a surfactant-like polymer gel, and a method for separating material using the same.

Comparing claims 1,15,18,25 with D1-D2, the subject matter of these claims differs from the teachings of D1-D2 in that a polymer gel has a surfactant-like micelle structure obtained by polymerization or condensation polymerization of an ionic surfactant and an organic or inorganic compound having polymerizable moiety at or above the surfactant's critical micelle concentration. According to the present invention, the polymer gel is capable of adsorbing and separating specific compounds in an easy recyclable manner. Thus, the problem of the prior adsorbents which are difficult to regenerate can be overcome.

Therefore, the subject matter of independent claims 1,15,18,25 is considered to be novel and to involve an inventive step; consequently, the subject matter of dependent claims 2-14,16,17,19-24,26,27 is also novel and inventive.

Claims 1-27 meet the criteria of PCT Article 33(4), IA, because the invention is industrially applicable.